

IN THE CLAIMS:

1. (Original) Method of storing data on a rewritable data storage medium comprising a read-only fixed data area and a recordable data area wherein:

- system data are stored in the recordable data area,
- a cryptographic summary of the system data is generated and stored in the fixed data area and
- the cryptographic summary is used for verification of the system data before reading and/or recording of user data.

2. (Cancelled).

3. (Currently Amended) Method as set forth in claim 1~~or 2~~, characterized in that a hash function is used for generating the cryptographic summary and for verifying the system data.

4. (Currently Amended) Method as set forth in claim 1~~or 2~~, characterized in that a message authentication code algorithm is used for generating the cryptographic summary and for verifying the system data.

5. (Currently Amended) Method as set forth in claim ~~1-or-2~~, characterized in that a key signature algorithm is used for generating the cryptographic summary and for verifying the system data and that a signature is stored as cryptographic summary.

6. (Currently Amended) Method as set forth in claim ~~1-or-2~~, characterized in that the cryptographic summary is generated and the system data are stored in the recordable data area as part of the formatting of the storage medium.

7. (Currently Amended) Method as set forth in claim ~~1-or-2~~, characterized in that copy protection information is stored as system data, in particular a unique storage medium identifier, a key encrypted by one or more different manufacturer-specific or device-specific keys or one or more lists of revoked devices or revoked storage mediums.

8. (Currently Amended) Method as set forth in claim ~~1-or-2~~, characterized in that the system data is originally stored in a corner area of the recordable data area and that during first use of the storage medium in a recording apparatus the system data are copied to a user data area of the recordable data area.

9. (Original) Storage medium for storing data comprising

- a recordable data area in which system data are stored,
- a read-only fixed data area in which a cryptographic summary of the system data is stored, the cryptographic summary being provided for verification of the system data before reading and/or recording of user data.

10. (Cancelled).

11. (Currently Amended) Storage medium as set forth in claim 9 ~~or 10~~, characterized in that the storage medium is a rewritable optical storage medium, in particular a CD or a DVD.

12. (Original) Recording apparatus for storing data on a rewritable data storage medium comprising

- generating means for generating a cryptographic summary of system data and
- recording means for storing the system data in a recordable data area of the medium and for storing the cryptographic summary in a read-only fixed data area of the medium, the cryptographic summary being provided for verification of the system data before reading and/or recording of user data.

13. (Cancelled).

14. (Original) Playback apparatus for playback of user data stored on a rewritable data storage medium comprising

- reading means for reading system data stored in the recordable data area of the medium and for reading a cryptographic summary of the system data stored in a read-only fixed data area of the medium and
- verifying means for generating a cryptographic summary of the system data read from the medium and for verification of the system data by use of the generated cryptographic summary.

15-24. (Cancelled).

25. (New) The storage medium of claim 9, wherein the fixed data area comprises a first fixed data area and a second fixed data area, the system data being stored in the second fixed data area and the cryptographic summary of the system data being stored in the first fixed data area.

26. (New) The storage medium of claim 25, wherein the second fixed data area is a corner area.

27. (New) The storage medium of claim 26, wherein the corner area is formed by pressed pits in the storage medium.

28. (New) The storage medium of claim 25, wherein the first fixed data area is a burst cut area.

29. (New) A method of recording user data on a rewriteable storage medium comprising a fixed data area and a recordable data area, wherein system data is stored in the recordable data area and a cryptographic summary of the system data is stored in the fixed data area, comprising:

generating a second cryptographic summary of the system data;

comparing the second cryptographic summary with the cryptographic summary from the fixed data area; and

recording the user data in the recordable data area based on the comparing the second cryptographic summary with the cryptographic summary from the fixed data area.

30. (New) A recording apparatus for recording user data on a rewriteable storage medium comprising a fixed data area and a recordable data area, wherein system data is stored in the recordable data area and a cryptographic summary of

the system data is stored in the fixed data area,
comprising:

means for reading the system data from the recordable data area and for reading the cryptographic summary from the fixed data area;

means for generating a second cryptographic summary of the system data;

means for comparing the second cryptographic summary with the cryptographic summary from the fixed data area;
and

means recording the user data in the recordable data area based on the comparing the second cryptographic summary with the cryptographic summary from the fixed data area.